

PATENT COOPERATION TREATY

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**NOTIFICATION OF RECEIPT OF
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(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

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18-12-2001

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Date of mailing (day/month/year) 10 December 2001 (10.12.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 15256F	International application No. PCT/FI01/01001

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

MYORIGO OY (for all designated States except US)
VAÄNÄNEN, Johannes (for US)

International filing date : 16 November 2001 (16.11.01)

Priority date(s) claimed :

Date of receipt of the record copy by the International Bureau : 05 December 2001 (05.12.01)

List of designated Offices :

AP : GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW

EA : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP : AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

OA : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

National : AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

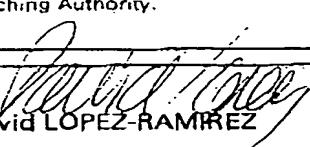
ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- time limits for entry into the national phase
- confirmation of precautionary designations
- requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer:  David LOPEZ-RAMIREZ Telephone No. (41-22) 338.83.38
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(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
20 June 2002 (20.06.2002)

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(10) International Publication Number
WO 02/047603 A3(51) International Patent Classification⁷: A61K 31/50, A61P 15/10

(74) Agent: ORION CORPORATION; Orion Pharma, Industrial Property Rights, P.O.Box 65, FIN-02101 Espoo (FI).

(21) International Application Number: PCT/FI01/01101

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(25) Filing Language: English

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Published:
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(71) Applicant (for all designated States except US): ORION CORPORATION [FI/FI]; Orionintie 1, FIN-02200 Espoo (FI).

(88) Date of publication of the international search report: 30 January 2003

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(72) Inventor: LILLEBERG, Jyrki [FI/FI]; Sirkkalanmäki 32, FIN-00760 Helsinki (FI).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

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WO 02/047603 A3

(54) Title: USE OF LEVOSIMENDAN FOR TREATING ERECTILE DYSFUNCTION

(57) Abstract: Levosimendan, or (-)[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]hydrazono]propanedinitrile, which has been previously suggested for the treatment of congestive heart failure is useful in the treatment of erectile dysfunction.

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INTERNATIONAL SEARCH REPORT

In International Application No
PCT/FI 01/01101A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/50 A61P15/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

CHEM ABS Data, MEDLINE, EMBASE, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 92 12135 A (ORION YHTYMAE OY) 23 July 1992 (1992-07-23) the whole document ---	1,2
A	WO 91 16052 A (CAVALLINI GIORGIO) 31 October 1991 (1991-10-31) the whole document ---	1,2
A	WO 99 21558 A (VIVUS INC) 6 May 1999 (1999-05-06) the whole document -----	1,2

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 "&" document member of the same patent family

Date of the actual completion of the international search

2 September 2002

Date of mailing of the international search report

25. 09. 2002

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European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
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Authorized officer

Eva Johansson

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 01/01101

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 2 because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 2

Claim 2 relates to a method of treatment of the human or animal body by surgery or by therapy/ a diagnostic method practised on the human or animal body/ Rule 39.1 (iv). Nevertheless, a search has been executed for this claim. The search has been based on the alleged effects of the compounds/compositions.

INTERNATIONAL SEARCH REPORT

Information on patent family members

In International Application No
PCT/FI 01/01101

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9212135	A 23-07-1992		AT 119525 T AU 645399 B2 AU 1153592 A BG 62002 B1 BG 97915 A BR 1100737 A3 CA 2099262 A1 CA 2314115 A1 CY 1878 A DE 69201640 D1 DK 565546 T3 EE 2946 B1 EP 0565546 A1 ES 2070627 T3 FI 932618 A FI 972077 A WO 9212135 A1 GB 2251615 A ,B HK 117395 A HR 921251 A1 HU 64754 A2 IE 920002 A1 IL 100553 A IL 114028 A JP 5015746 B2 JP 9183767 A JP 2635445 B2 JP 6504275 T KR 207145 B1 LU 90920 A9 LV 11174 A LV 11174 B NO 932367 A NZ 241194 A PL 169435 B1 PL 169415 B1 RO 111847 B1 RU 2118317 C1 SI 9112003 A US 5424428 A US 5569657 A US 5512571 A ZA 9200047 A	15-03-1995 13-01-1994 17-08-1992 30-12-1998 25-04-1994 21-03-2000 04-07-1992 04-07-1992 05-04-1996 13-04-1995 22-05-1995 16-12-1996 20-10-1993 01-06-1995 09-06-1993 15-05-1997 23-07-1992 15-07-1992 28-07-1995 31-08-1995 28-02-1994 15-07-1992 31-12-1995 12-09-1996 00-03-2000 15-07-1997 30-07-1997 19-05-1994 15-07-1999 17-07-2002 20-04-1996 20-12-1996 28-06-1993 25-06-1993 31-07-1996 31-07-1996 28-02-1997 27-08-1998 31-10-1998 13-06-1995 29-10-1996 30-04-1996 28-10-1992
WO 9116052	A 31-10-1991		IT 1252603 B AU 7680691 A CA 2080825 A1 WO 9116052 A1 EP 0525010 A1 US 5336678 A	19-06-1995 11-11-1991 20-10-1991 31-10-1991 03-02-1993 09-08-1994
WO 9921558	A 06-05-1999		US 6037346 A AU 734734 B2 AU 1125499 A CA 2305394 A1 EP 1027054 A1 WO 9921558 A2 US 6156753 A	14-03-2000 21-06-2001 17-05-1999 06-05-1999 16-08-2000 06-05-1999 05-12-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

In tional Application No
PCT/FI 01/01101

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9921558	A	US 6127363 A	03-10-2000
		US 2002037828 A1	28-03-2002
		US 2002004498 A1	10-01-2002

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